FIGURE 1A

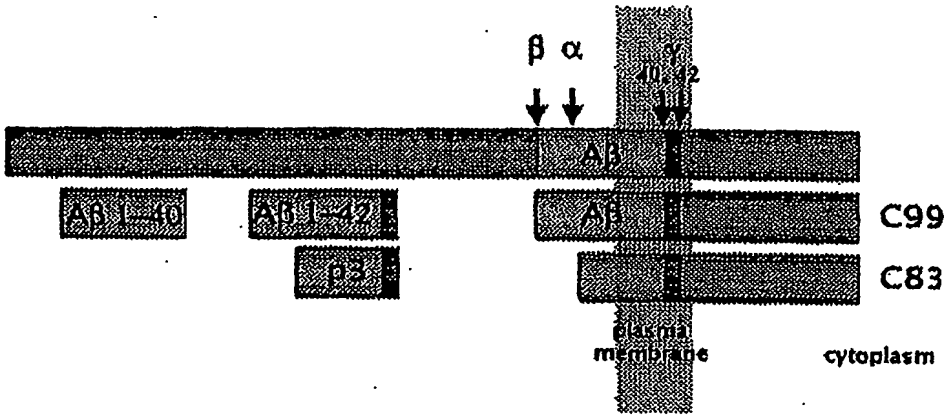

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FIGURE 1B

siRNA1

```
Human BACE1 175 GCTTTGTGGAGATGGTGGA 194
Mouse BACE1 175 GCTTTGTGGAGATGGTGGA 194
Rat   BACE1 175 GCTTTGTGGAGATGGTGGA 194
Mouse BACE2 214 ACTTCTTGGCTATGGTGGA 233
Human BACE2 226 ACTTCTTGGCCATGGTAGA 245
```

siRNA 2

```
Human BACE1 257 GACGCTCAACATCCTGGTG 276
Mouse BACE1 257 GACGCTCAACATCCTGGTG 276
Rat   BACE1 257 GACGCTCAACATCCTGGTG 276
Mouse BACE2 296 GAAGGTACAGATTCTTGTG 315
Human BACE2 308 GAAGCTACAGATTCTCGTT 327
```

siRNA3

```
Human BACE1 826   TGGACTGCAAGGAGTACAA 845
Mouse BACE1 826   TGGACTGCAAGGAGTACAA 845
Rat   BACE1 826   TGGACTGCAAGGAGTACAA 845
Mouse BACE2 856                      875
Human BACE2 868                      887
```

siRNA 4

```
Human BACE1 1237 TTGGCTTTGCTGTCAGCGC 1256
Mouse BACE1 1237 TTGGCTTTGCTGTCAGCGC 1256
Rat   BACE1 1237 TTGGCTTTGCTGTCAGCGC 1256
Mouse BACE2 1264 TGGGCTTTGCAGTGAGTCC 1283
Human BACE2 1276 TGGGCTTCGCAGCGAGCCC 1295
```

Human BACE1:

FIGURE 1C

```
   1 atggcccaag ccctgccctg gctcctgctg tggatgggcg cgggagtgct gcctgcccac
  61 ggcacccagc acggcatccg gctgcccctg cgcagcggcc tgggggggcgc ccccctgggg
 121 ctgcggctgc cccgggagac cgacgaagag cccgaggagc ccggccggag gggcagcttt 1
 181 gtggagatgg tggacaacct gaggggcaag tcggggcagg gctactacgt ggagatgacc
 241 gtgggcagcc ccccgcagac gctcaacatc ctggtggata caggcagcag taactttgca 2
 301 gtgggtgctg ccccccaccc cttcctgcat cgctactacc agaggcagct gtccagcaca
 361 taccgggacc tccggaaggg tgtgtatgtg ccctacaccc agggcaagtg ggaaggggag
 421 ctgggcaccg acctggtaag catcccccat ggccccaacg tcactgtgcg tgccaacatt
 481 gctgccatca ctgaatcaga caagttcttc atcaacggct ccaactggga aggcatcctg
 541 gggctggcct atgctgagat tgccaggcct gacgactccc tggagccttt ctttgactct
 601 ctggtaaagc agacccacgt tcccaacctc ttctccctgc agctttgtgg tgctggcttc
 661 cccctcaacc agtctgaagt gctggcctct gtcggaggga gcatgatcat tggaggtatc
 721 gaccactcgc tgtacacagg cagtctctgg tatacaccca tccggcggga gtggtattat
 781 gaggtgatca ttgtgcgggt ggagatcaat ggacaggatc tgaaaatgga ctgcaaggag 3
 841 tacaactatg acaagagcat tgtggacagt ggcaccacca accttcgttt gcccaagaaa
 901 gtgtttgaag ctgcagtcaa atccatcaag gcagcctcct ccacggagaa gttccctgat
 961 ggtttctggc taggagagca gctggtgtgc tggcaagcag gcaccacccc ttggaacatt
1021 ttcccagtca tctcactcta cctaatgggt gaggttacca accagtcctt ccgcatcacc
1081 atccttccgc agcaatacct gcggccagtg gaagatgtgg ccacgtccca agacgactgt
1141 tacaagtttg ccatctcaca gtcatccacg ggcactgtta tgggagctgt tatcatggag
1201 ggcttctacg ttgtctttga tcgggcccga aaacgaattg gctttgctgt cagcgcttgc 4
1261 catgtgcacg atgagttcag gacggcagcg gtggaaggcc cttttgtcac cttggacatg
1321 gaagactgtg gctacaacat tccacagaca gatgagtcaa ccctcatgac catagcctat
1381 gtcatggctg ccatctgcgc cctcttcatg ctgccactct gcctcatggt gtgtcagtgg
1441 cgctgcctcc gctgcctgcg ccagcagcat gatgactttg ctgatgacat ctccctgctg
1501 aagtga
```

FIGURE 2

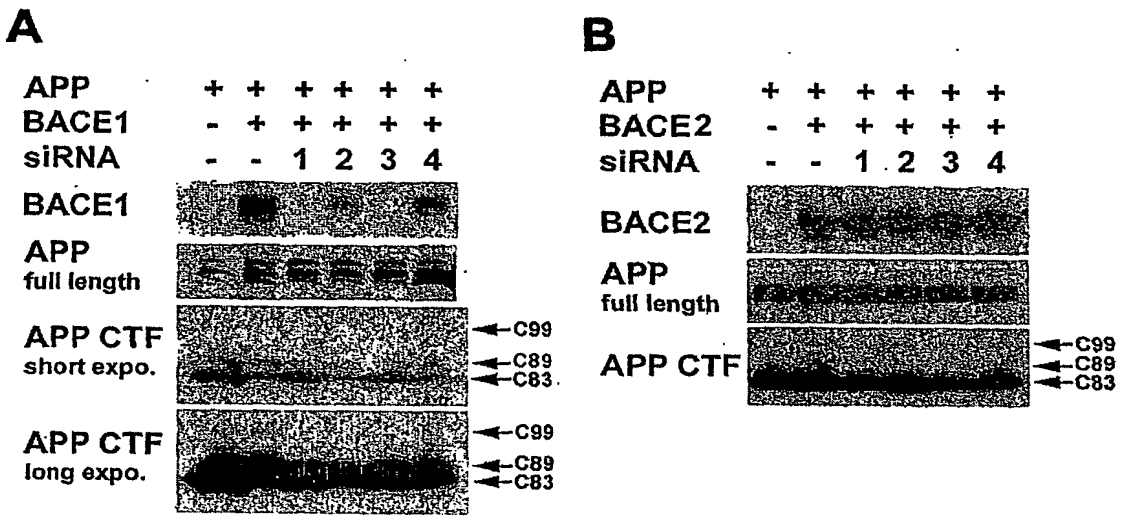

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FIGURE 3

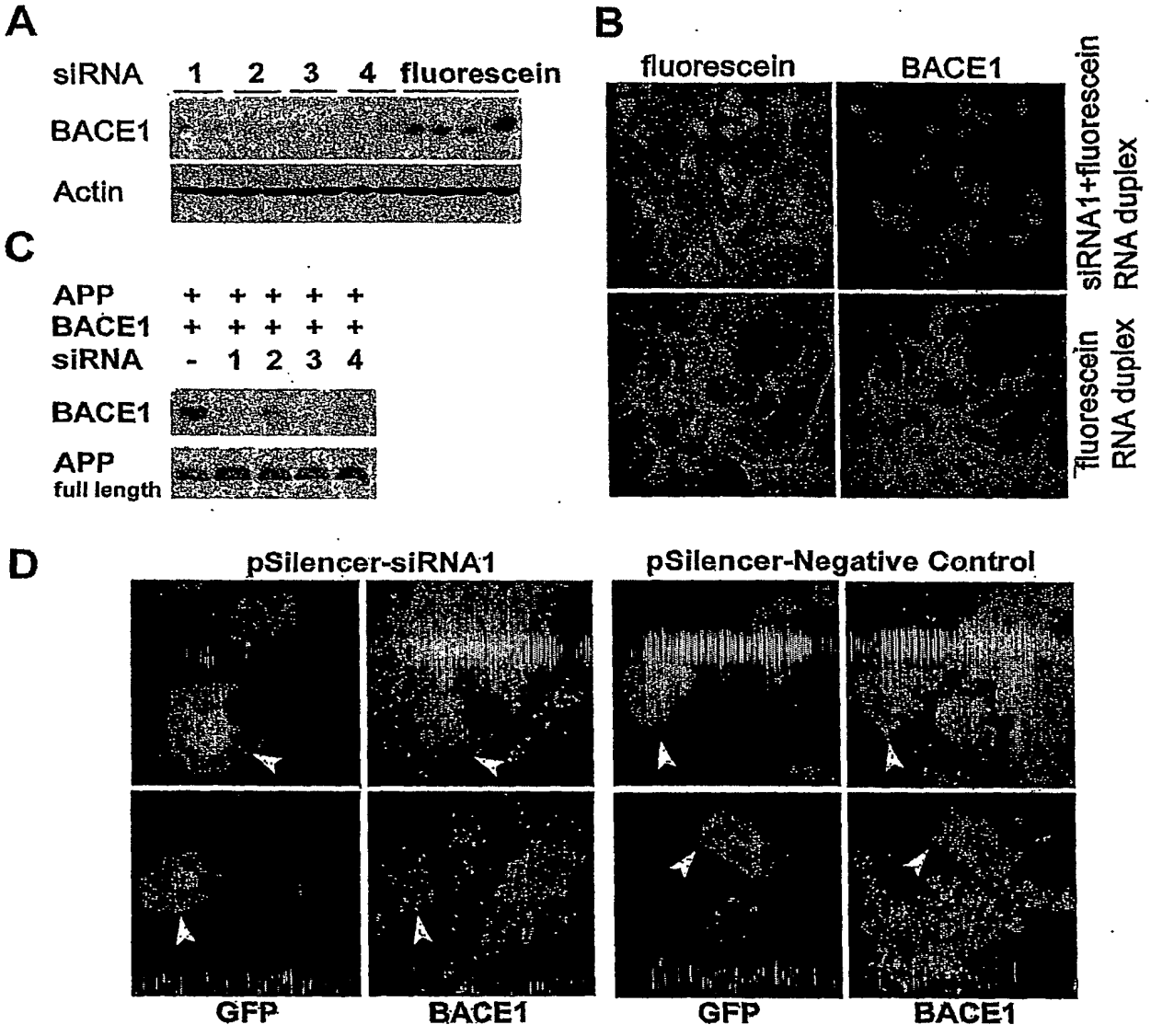

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FIGURE 4

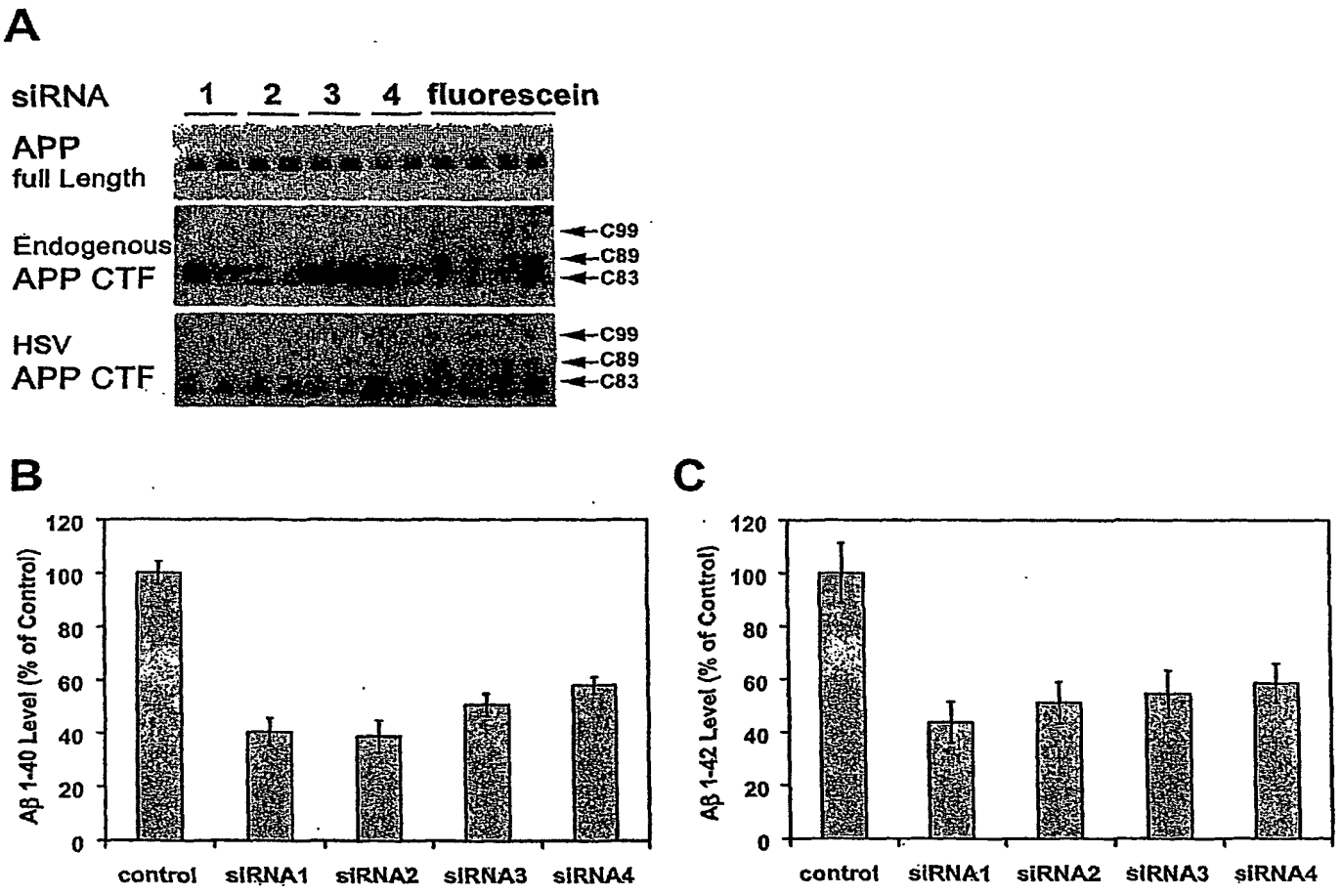

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FIGURE 5

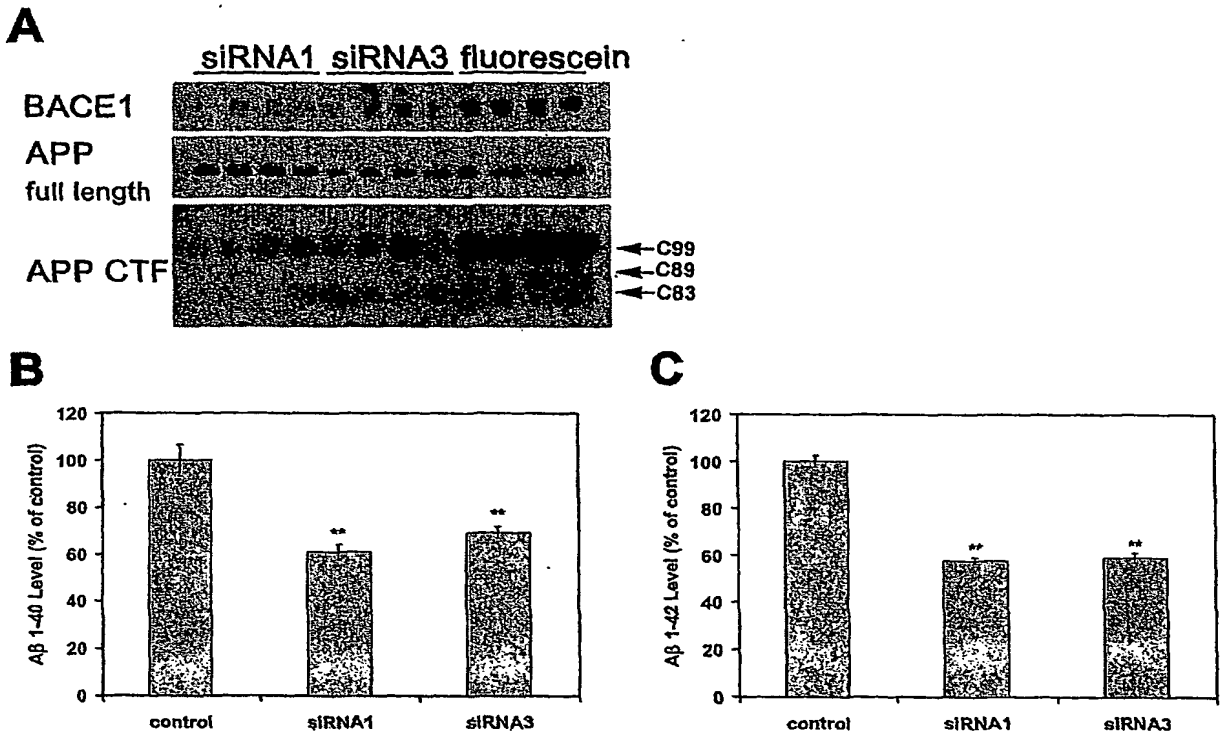

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FIGURE 6

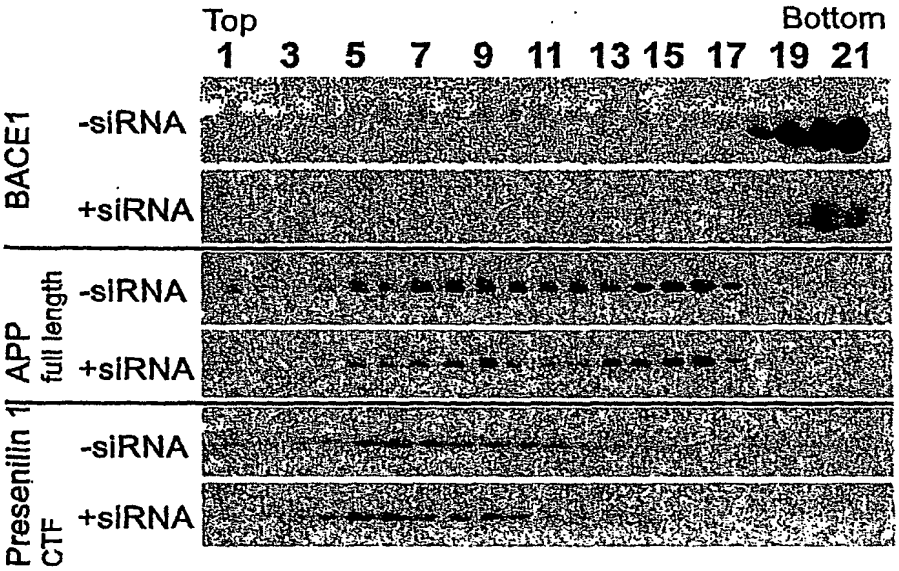

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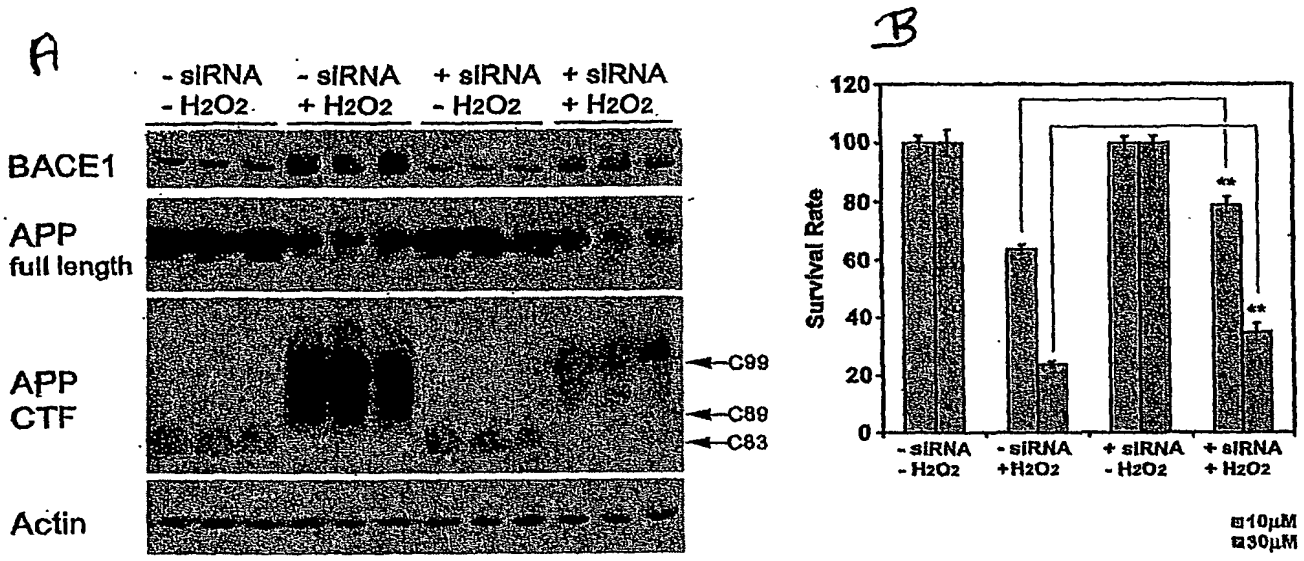
FIGURE 7



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